



SEQUENCE LISTING

<110> BEELEY, NIGEL R. A.
PRICKETT, KATHRYN S.

<120> NOVEL EXENDIN AGONIST COMPOUNDS

<130> 18528.016 (238/086 US)

<140> 09/554,533

<141> 1998-11-13

<150> PCT/US98/24210

<151> 1998-11-13

<150> 60/065,442

<151> 1997-11-14

<160> 87

<170> PatentIn version 3.2

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<212> PRT

<213> Heloderma horridum

<220>

<223> C-term amidated

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His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
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Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
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Ser Gly Ala Pro Pro Pro Ser
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<213> Heloderma suspectum

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<223> C-term amidated

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His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu

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Glu	Ala	Val	Arg
	20		
Leu	Phe	Ile	Glu
			25
Trp	Leu	Lys	Asn
			30
Gly	Gly	Pro	Ser
Ser	Gly	Ala	Pro
	35	Pro	Ser

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 <213> Homo sapien

<220>
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3													
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Gln	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Trp	Leu	Val	Lys	Gly	Arg
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<220>
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 <223> Ser, Gly, Ala or Thr

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 <223> Ala, Asp, or Glu

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<223> Ile, Val, Leu, pentylglycine, tert-butylglycine,
or Met

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<223> Ala, Glu, or Asp

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N-alkylalanine, or not present

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N-alkylalanine, or not present

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N-alkylalanine, or not present

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N-alkylalanine, or not present

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20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa
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Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
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Glu Ala Val Arg Leu Ala Ile Glu Phe Leu Lys Asn
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Glu Ala Val Arg Leu Ala Ile Glu Phe Leu Lys Asn
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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
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<210> 9

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<223> May be c-term amidated

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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
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His Gly Glu Gly Thr Phe Thr Ala Asp Leu Ser Lys Gln Leu Glu Glu
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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
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1 5 10 15

Ala Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
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His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Ala Arg Leu Phe Ile Glu Phe Leu Lys Asn
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1 5 10 15

Glu Ala Val Ala Leu Phe Ile Glu Phe Leu Lys Asn
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<223> May be c-term amidated

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1 5 10 15

Glu Ala Val Arg Ala Phe Ile Glu Phe Leu Lys Asn
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Glu Ala Val Arg Leu Phe Ile Ala Phe Leu Lys Asn
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Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn
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Glu Ala Val Arg Leu Phe Ile Glu Phe Ala Lys Asn
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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Ala Asn
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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Ala
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Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser

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Ser Gly Ala Pro Pro Pro
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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
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Ser Gly Ala Pro Pro Pro
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Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
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Ser Gly Ala Pro Pro
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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
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Ser Gly Ala Pro Pro
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1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro
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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
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Ser Gly Ala Pro
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<223> May be c-term amidated

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Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
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Ser Gly Ala
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Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30
Ser Gly

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<220>
<223> May be c-term amidated

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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30
Ser Gly

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<220>

<223> May be c-term amidated

<400> 38

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1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser

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<223> May be c-term amidated

<400> 39

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1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser

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1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
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20 25 30

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1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro
 20 25 30

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 20 25 30

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1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly
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Ser Gly Ala Xaa Xaa Xaa
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<223> thioproline

<220>

<223> May be c-term amidated

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1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa
35

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<223> May be c-term amidated

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Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Pro Pro
35

<210> 50

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<220>
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Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30
Ser Gly Ala Xaa Xaa
35

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<220>
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His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30
Ser Gly Ala Xaa Xaa
35

<210> 52
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (31)
<223> homoproline

<220>
<221> MOD_RES
<222> (36)
<223> homoproline

<220>
<223> May be c-term amidated

<400> 52
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30
Ser Gly Ala Xaa
35

<210> 53
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 53
Arg Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30
Ser Gly Ala
35

<210> 54
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 54
His Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
20 25 30

<210> 55
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (6)
<223> naphthylalanine

<220>
<223> May be c-term amidated

<400> 55
His Gly Glu Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 56
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 56

His Gly Glu Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 57

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 57

His Gly Glu Gly Thr Phe Ser Thr Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 58

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 58

His Gly Glu Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Met Ala Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 59

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (10)

<223> pentylglycine

<220>

<223> May be c-term amidated

<400> 59

His Gly Glu Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 60

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (22)

<223> naphthylalanine

<220>

<223> May be c-term amidated

<400> 60

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Ile Glu Phe Leu Lys Asn
20 25

<210> 61

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (23)

<223> tertiary-butylglycine

<220>

<223> May be c-term amidated

<400> 61

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Xaa Glu Trp Leu Lys Asn
20 25

<210> 62

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 62

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Asp Phe Leu Lys Asn
20 25

<210> 63

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 63

His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser

<210> 64
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 64
His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly
20 25

<210> 65
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (31)
<223> homoproline

<220>
<221> MOD_RES
<222> (36)..(37)
<223> homoproline

<220>
<223> May be c-term amidated

<400> 65
His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa
35

<210> 66
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)
<223> His, Arg, Tyr, or 4-imidazopropionyl

<220>
<221> MOD_RES
<222> (2)
<223> Ser, Gly, Ala, or Thr

<220>
<221> MOD_RES
<222> (3)
<223> Ala, Asp, or Glu

<220>
<221> MOD_RES
<222> (5)
<223> Ala or Thr

<220>
<221> MOD_RES
<222> (6)
<223> Ala, Phe, Tyr, or naphthylalanine

<220>
<221> MOD_RES
<222> (7)
<223> Thr or Ser

<220>
<221> MOD_RES
<222> (8)
<223> Ala, Ser, or Thr

<220>
<221> MOD_RES
<222> (9)
<223> Asp or Glu

<220>
<221> MOD_RES
<222> (10)
<223> Ala, Leu, Ile, Val, pentylglycine, or Met

<220>
<221> MOD_RES
<222> (11)
<223> Ala or Ser

<220>
<221> MOD_RES
<222> (12)
<223> Ala or Lys

<220>
<221> MOD_RES
<222> (13)
<223> Ala or Gln

<220>
<221> MOD_RES
<222> (14)
<223> Ala, Leu, Ile, pentylglycine, Val, or Met

<220>
<221> MOD_RES
<222> (15)
<223> Ala or Glu

<220>
<221> MOD_RES
<222> (16)
<223> Ala or Glu

<220>
<221> MOD_RES
<222> (17)
<223> Ala or Glu

<220>
<221> MOD_RES
<222> (19)
<223> Ala or Val

<220>
<221> MOD_RES
<222> (20)
<223> Ala or Arg

<220>
<221> MOD_RES
<222> (21)
<223> Ala, Leu, or Lys-NH

<220>
<221> MOD_RES

<222> (22)
<223> Lys, Arg, or not present

<220>
<221> MOD_RES
<222> (23)
<223> Phe, Tyr, or naphthylalanine

<220>
<221> MOD_RES
<222> (24)
<223> Ile, Val, Leu, pentylglycine, tert-butylglycine,
or Met

<220>
<221> MOD_RES
<222> (25)
<223> Ala, Glu, or Asp

<220>
<221> MOD_RES
<222> (26)
<223> Ala, Trp, Phe, Tyr, or naphthylalanine

<220>
<221> MOD_RES
<222> (27)
<223> Ala or Leu

<220>
<221> MOD_RES
<222> (28)
<223> Lys, Asn, Lys-NH, or Ala

<220>
<221> MOD_RES
<222> (29)
<223> Asn, Lys, Arg, or Lys-NH

<220>
<221> MOD_RES
<222> (30)
<223> Asn, Lys, Arg, Ala, or not present

<220>
<221> MOD_RES
<222> (31)
<223> Gly or not present

<220>
<221> MOD_RES
<222> (32)
<223> Gly or not present

<220>
<221> MOD_RES
<222> (33)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine,
N-alkylalanine, or not present

<220>
<221> MOD_RES
<222> (34)
<223> Ser or not present

<220>
<221> MOD_RES
<222> (35)
<223> Ser or not present

<220>
<221> MOD_RES
<222> (36)
<223> Gly or not present

<220>
<221> MOD_RES
<222> (37)
<223> Ala or not present

<220>
<221> MOD_RES
<222> (38)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine,
N-alkylalanine, or not present

<220>
<221> MOD_RES
<222> (39)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine,
N-alkylalanine, or not present

<220>
<221> MOD_RES
<222> (40)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine,
N-alkylalanine, or not present

<220>
<223> May be c-term amidated

<400> 66

Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15
Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

<210> 67
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)
<223> 4-imidazolylpropionyl-Gly

<220>
<221> MOD_RES
<222> (26)
<223> Lys-NH-octanoyl

<220>
<223> May be c-term amidated

<400> 67
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Xaa Asn
20 25

<210> 68
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)
<223> 4-imidazolylpropionyl-Gly

<220>

<221> MOD_RES

<222> (26)

<223> Lys-NH-octanoyl

<220>

<223> May be c-term amidated

<400> 68

Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn
20 25

<210> 69

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (1)

<223> 4-imidazolylpropionyl-Gly

<220>

<221> MOD_RES

<222> (26)

<223> Lys-NH-octanoyl

<220>

<223> May be c-term amidated

<400> 69

Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Xaa Asn Gly Gly
20 25

<210> 70

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES
<222> (1)
<223> 4-imidazolylpropionyl-Gly

<220>
<221> MOD_RES
<222> (26)
<223> Lys-NH-octanoyl

<220>
<223> May be c-term amidated

<400> 70
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn Gly Gly
20 25

<210> 71
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)
<223> 4-imidazolylpropionyl-Gly

<220>
<221> MOD_RES
<222> (27)
<223> Lys-NH-octanoyl

<220>
<223> May be c-term amidated

<400> 71
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa
20 25

<210> 72
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)
<223> 4-imidazolylpropionyl-Gly

<220>
<221> MOD_RES
<222> (27)
<223> Lys-NH-octanoyl

<220>
<223> May be c-term amidated

<400> 72
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Xaa
20 25

<210> 73
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)
<223> 4-imidazolylpropionyl-Gly

<220>
<221> MOD_RES
<222> (27)
<223> Lys-NH-octanoyl

<220>
<223> May be c-term amidated

<400> 73
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa Gly Gly
20 25

<210> 74
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)
<223> 4-imidazolylpropionyl-Gly

<220>
<221> MOD_RES
<222> (27)
<223> Lys-NH-octanoyl

<220>
<223> May be c-term amidated

<400> 74
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Xaa Gly Gly
20 25

<210> 75
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (3)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-Alkylglycine, N-alkylpentylglycine,
or N-alklalanine

<220>
<223> May be c-term amidated

<400> 75
Gly Gly Xaa Ser Ser
1 5

<210> 76
<211> 6

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (3)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-Alkylglycine, N-alkylpentylglycine,
or N-alklalanine

<220>
<223> May be c-term amidated

<400> 76
Gly Gly Xaa Ser Ser Gly
1 5

<210> 77
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (3)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-Alkylglycine, N-alkylpentylglycine,
or N-alklalanine

<220>
<223> May be c-term amidated

<400> 77
Gly Gly Xaa Ser Ser Gly Ala
1 5

<210> 78
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<220>
<221> MOD_RES
<222> (3)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-Alkylglycine, N-alkylpentylglycine,
or N-alklalanine

<220>
<221> MOD_RES
<222> (8)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine,
or N-alkylalanine

<220>
<223> May be c-term amidated

<400> 78
Gly Gly Xaa Ser Ser Gly Ala Xaa
1 5

<210> 79
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (3)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-Alkylglycine, N-alkylpentylglycine,
or N-alklalanine

<220>
<221> MOD_RES
<222> (8)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine,
or N-alkylalanine

<220>
<221> MOD_RES
<222> (9)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine,
or N-alkylalanine

<220>

<223> May be c-term amidated

<400> 79

Gly Gly Xaa Ser Ser Gly Ala Xaa Xaa
1 5

<210> 80

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (3)

<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-Alkylglycine, N-alkylpentylglycine,
or N-alkylalanine

<220>

<221> MOD_RES

<222> (8)

<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine,
or N-alkylalanine

<220>

<221> MOD_RES

<222> (9)

<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine,
or N-alkylalanine

<220>

<221> MOD_RES

<222> (10)

<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine,
or N-alkylalanine

<220>

<223> May be c-term amidated

<400> 80

Gly Gly Xaa Ser Ser Gly Ala Xaa Xaa Xaa
1 5 10

<210> 81
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (3)
<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>
<223> May be c-term amidated

<400> 81
Gly Gly Xaa Ser Ser
1 5

<210> 82
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (3)
<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>
<223> May be c-term amidated

<400> 82
Gly Gly Xaa Ser Ser Gly
1 5

<210> 83
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES

<222> (3)
<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>
<223> May be c-term amidated

<400> 83
Gly Gly Xaa Ser Ser Gly Ala
1 5

<210> 84
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (3)
<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>
<221> MOD_RES
<222> (8)
<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>
<223> May be c-term amidated

<400> 84
Gly Gly Xaa Ser Ser Gly Ala Xaa
1 5

<210> 85
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (3)

<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>

<221> MOD_RES

<222> (8)

<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>

<221> MOD_RES

<222> (9)

<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>

<223> May be c-term amidated

<400> 85

Gly Gly Xaa Ser Ser Gly Ala Xaa Xaa
1 5

<210> 86

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (3)

<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>

<221> MOD_RES

<222> (8)

<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>

<221> MOD_RES

<222> (9)

<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>

<221> MOD_RES

<222> (10)

<223> Pro, homoproline, thioproline,

or N-methylalanine

<220>

<223> May be c-term amidated

<400> 86

Gly Gly Xaa Ser Ser Gly Ala Xaa Xaa Xaa
1 5 10

<210> 87

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (1)

<223> His, Arg or Tyr

<220>

<221> MOD_RES

<222> (2)

<223> Ser, Gly, Ala or Thr

<220>

<221> MOD_RES

<222> (3)

<223> Ala, Asp, or Glu

<220>

<221> MOD_RES

<222> (5)

<223> Ala or Thr

<220>

<221> MOD_RES

<222> (6)

<223> Ala, Phe, Tyr or naphthylalanine

<220>

<221> MOD_RES

<222> (7)

<223> Thr or Ser

<220>

<221> MOD_RES

<222> (8)

<223> Ala, Ser or Thr

<220>
<221> MOD_RES
<222> (9)
<223> Asp or Glu

<220>
<221> MOD_RES
<222> (10)
<223> Ala, Leu, Ile, Val, pentylglycine, or Met

<220>
<221> MOD_RES
<222> (11)
<223> Ala or Ser

<220>
<221> MOD_RES
<222> (12)
<223> Ala or Lys

<220>
<221> MOD_RES
<222> (13)
<223> Ala or Gln

<220>
<221> MOD_RES
<222> (14)
<223> Ala, Leu, Ile pentylglycine, Val, or Met

<220>
<221> MOD_RES
<222> (15)
<223> Ala or Glu

<220>
<221> MOD_RES
<222> (16)
<223> Ala or Glu

<220>
<221> MOD_RES
<222> (17)
<223> Ala or Glu

<220>
<221> MOD_RES
<222> (19)
<223> Ala or Val

<220>
<221> MOD_RES
<222> (20)

<223> Ala or Arg

<220>

<221> MOD_RES

<222> (21)

<223> Ala or Leu

<220>

<221> MOD_RES

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Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa

35